

WHAT IS CLAIMED IS:

1. A relay unit comprising:

5 a plurality of relays each including a pair of first and second switch connector circuit components between which a relay switch element is intervened and a pair of first and second coil connector circuit components between which a relay coil element is intervened; and

10 a plurality of electrically conductive trimmer joint portions preliminarily interconnecting said switch connector circuit components and said coil connector circuit components to one another;

15 wherein said plurality of electrically conductive trimmer joint portions is enabled to be selectively trimmed to provide a desired mounting circuit formed in a selected relay circuit pattern.

2. The relay unit according to claim 1, wherein:

20 said plurality of electrically conductive trimmer joint portions include a first trimmer joint portion intervened between said first and second switch connector circuit components in each of said relays and a second trimmer joint portion intervened between one of said pairs of first and second switch connector circuit components and another one of said pairs of first and second switch connector circuit components between adjacent ones of said relays.

25 3. The relay unit according to claim 1, wherein:

each of said first and second switch connector circuit components and each of said coil circuit components include a switch connector bus bar and a coil connector bus bar, respectively.

30 4. The relay unit according to claim 3, wherein:

said switch connector bus bar and said coil connector bus bar are partly formed with relay terminals to permit connectors to be coupled thereto, respectively.

5. An electrical junction box comprising:

a relay unit including a plurality of relays each including a pair of first and second switch connector circuit components between which a relay switch element is intervened and a pair of first and second coil connector circuit components between which a relay coil element is intervened, and a plurality of electrically conductive trimmer joint portions interconnecting said first and second switch connector circuit components and said first and second coil connector circuit components to one another, wherein said plurality of electrically conductive trimmer joint portions can be trimmed to provide a desired mounting circuit formed in a selected relay circuit pattern.

10 5. A relay comprising:

a pair of switch connector circuit components between which a relay switch element is intervened;

15 a pair of coil connector circuit components between which a relay coil element is intervened; and

20 a fuse connector portion unitarily coupled with a fuse into a unitary structure to allow power supply current to be supplied to said switch connector circuit components and said coil connector components.

25 7. The relay according to claim 6, wherein:

one of said switch connector circuit components has one terminal formed with said fuse connector portion to be connected to a downstream terminal of said fuse and another terminal, with said one terminal extending in a direction different from that in which said another terminal extends.

30 8. An electrical junction box comprising:

a relay including a pair of switch connector circuit components between which a relay switch element is intervened and a pair of coil connector circuit components between which a relay coil element is intervened;

wherein said relay is unitarily coupled with a fuse via a fuse connector portion to provide a unitary structure; and

wherein said relay is received in said electrical junction box such that

the relay is laid in a minimum projected area in a direction perpendicular to a mounting surface of said electrical junction box.

9. The electrical junction box according to claim 8, wherein:

5 one of said pair of switch connector circuit components has one terminal formed with said fuse connector portion to which a downstream terminal of said fuse is coupled; and

further comprising:

10 a box body enclosing at least said relay and said fuse of which said downstream terminal is coupled to said fuse connector portion;

wherein said box body is formed with a relay compartment receiving said relay, and a fuse cavity receiving said fuse, the one terminal of said relay being inserted through said fuse cavity.

15 10. The electrical junction box according to claim 9, wherein:

said one of said pair of switch connector components has the other terminals, and the one terminal of said relay extends in a direction opposed to that of said other terminals to allow said box body to receive said fuse in a stacked state with said one terminal of said relay.

20 11. The electrical junction box according to claim 10, wherein:

said box body is formed with a connector joint portion allowing a connector of a wire harness to be connected to said other terminals of said relay.

25 12. The electrical junction box according to claim 11, further comprising:

a lower cover to which said box body is mounted such that the connector joint portion is separated from a bottom wall of said lower cover by a given distance.

30 13. The electrical junction box according to claim 10, wherein:

said box body has another fuse cavity, formed between neighboring fuses connected to said relay to assume in the same plane as said relay, for

receiving another fuse which is disconnected from said relay.

14. The electrical junction box according to claim 9, further comprising:
5 at least one upstream terminal formed on said fuse; and
a bus bar providing electrical connection between said upstream terminal and a power supply section adapted to be externally supplied with electric power.